

Title (en)

Backwards-compatible failure restoration in bidirectional multiplex section-switched ring transmission systems

Title (de)

Rückwärtskompatible Fehlerwiederherstellung in Ringsübertragungssystemen mit bidirektionalen multiplexierten geschalteten Sektionen

Title (fr)

Restoration d'erreur rétro-compatible dans des système de transmission en anneaux avec des sections de commutation bidirectionnelles multiplexées

Publication

EP 0984574 A3 20031203 (EN)

Application

EP 99306650 A 19990823

Priority

US 14620998 A 19980902

Abstract (en)

[origin: EP0984574A2] A restoration procedure for use in bidirectional multiplex section-switched ring transmission systems re-establishes a connection path by using a loopback connection at nodes bordering the failure and by then establishing a jumpered connection path, for each active tributary affected by the failure. The jumpered connection path at affected node eliminates any unnecessary loop formed in the re-established connection path caused by the loopback connection at the border nodes. There is stored in memory at each node (1) the provisioned connection path, (2) the jumpered path, and (3) a jumper flag is set indicating that a jumper connection exists. When the failure is cleared the (1) jumpered path is removed and its record erase from memory, (2) the provisioned connection path is restored, and (3) the jumper flag is reset. Advantageously, the this operation can be programmed into existing node controllers and is compatible with existing restoration procedures. <IMAGE>

IPC 1-7

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IPC 8 full level

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CPC (source: EP US)

H04J 3/085 (2013.01 - EP US); **H04J 2203/0042** (2013.01 - EP US); **H04J 2203/006** (2013.01 - EP US)

Citation (search report)

- [A] US 5636205 A 19970603 - SUZUKI HIROYUKI [JP], et al
- [A] US 5537393 A 19960716 - SHIODA MASAHIRO [JP], et al

Cited by

EP1368937A4

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

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EP 0984574 A2 20000308; **EP 0984574 A3 20031203**; **EP 0984574 B1 20070321**; AU 4588299 A 20000316; CA 2278828 A1 20000302; CA 2278828 C 20030128; DE 69935560 D1 20070503; DE 69935560 T2 20071206; JP 2000165427 A 20000616; JP 3390705 B2 20030331; US 6246667 B1 20010612

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EP 99306650 A 19990823; AU 4588299 A 19990901; CA 2278828 A 19990726; DE 69935560 T 19990823; JP 24811999 A 19990902; US 14620998 A 19980902